

DESCRIPTION

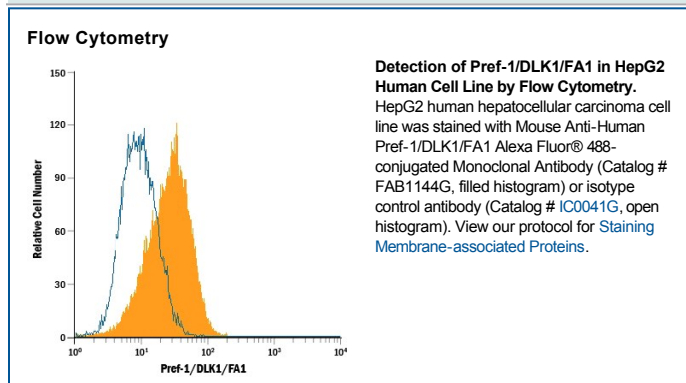
| | |
|---------------------------|--|
| Species Reactivity | Human |
| Specificity | Detects human Pref-1/DLK1/FA1 in direct ELISAs and Western blots. Shows approximately 50% cross-reactivity with recombinant mouse Pref-1/DLK1/FA1. |
| Source | Monoclonal Mouse IgG _{2B} Clone # 211309 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | Mouse myeloma cell line NS0-derived recombinant human Pref-1/DLK1/FA1 long isoform Ala24-Pro297 (with Arg248Pro and Lys295Ser substitutions) Accession # P80370 |
| Conjugate | Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm |
| Formulation | Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

| | Recommended Concentration | Sample |
|-----------------------|----------------------------|-----------|
| Flow Cytometry | 5 µL/10 ⁶ cells | See Below |

DATA



PREPARATION AND STORAGE

| | |
|--------------------------------|--|
| Shipping | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| Stability & Storage | Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied. |

BACKGROUND

Pref-1 (Preadipocyte Factor 1), also known as DLK1 and FA1, is a 58-65 kDa member of the Notch/Serrata/Delta family of proteins. It is expressed in prechondrocytes and preadipocytes and appears to block progenitor cell differentiation into mature cell lineages. Mature human Pref-1 is a 360 amino acid (aa) type I transmembrane N- and O-linked glycoprotein. It contains a 280 aa extracellular region (aa 24-303), a 24 aa transmembrane segment (aa 304-327), and a 56 aa cytoplasmic domain (aa 328-383). The extracellular region contains six EGF-like domains, and undergoes proteolytic cleavage to generate a bioactive 50 kDa fragment, plus three 25-31 kDa fragments that show no activity. There are multiple potential splice variants. One shows a deletion of aa 229-301, a second possesses a six aa substitution for aa 1-52, a third shows a deletion of aa 210-277, while a fourth contains a six aa substitution for aa 207-383. Over aa 24-297, human Pref-1 shares 82% aa identity with mouse Pref-1.

PRODUCT SPECIFIC NOTICES

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